

ADVANCED DATA HANDLING TECHNIQUES

~~SECRET~~

(Security Classification)

CONTROL NO. SC 06322-81*Cy 2*

ROUTING			
TO:	NAME AND ADDRESS	DATE	INITIALS
1			
2			
3			
4			
	ACTION	DIRECT REPLY	PREPARE REPLY
	APPROVAL	DISPATCH	RECOMMENDATION
	COMMENT	FILE	RETURN
	CONCURRENCE	INFORMATION	SIGNATURE
REMARKS:			
FROM: NAME, ADDRESS, AND PHONE NO.			DATE

Handle Via

COMINT

Channels

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Warning Notice

Intelligence Sources and Methods Involved

NATIONAL SECURITY INFORMATION

Unauthorized Disclosure Subject to Criminal Sanctions

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(Security Classification)

DISSEMINATION CONTROL ABBREVIATIONS

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
REL . . . -	This Information has been Authorized for Release to . . .

NSA

I. PROJECT TITLE: JERKIN I&W Graphics System

Submitting Agency: NSA

II. FUNDS: FY83 FY84

25X1

III. DESCRIPTION OF PROJECTa. Statement of need:

Maps and timelines essential for the analysis and reporting of Indications and Warning information are, at present, produced and updated manually, using acetate overlays and grease pencils. Data from earlier events, stored in such a bulky medium, cannot be retrieved rapidly enough to be used in assessing current events. Maps and timelines must be redrawn by graphics artists so that they can be reproduced for end-product reports. And because there is no capability for NSA to transmit graphically to other warning centers, NSA for the most part converts map and timeline information to narrative form and transmits it electrically to warning centers, which then go through the reverse process of converting the narrative information to timelines and maps.

What is needed is a computer graphics system which can serve as a tool for rapidly creating, updating and comparing maps and timelines for use in analyzing Indications and Warning information; provide storage and retrieval of maps and timelines for use in historical comparison and for conversion to end-product; and provide a capability to transmit map and timeline displays electrically to users (e.g., SAC, NMCC, NMIC, NORAD) on a current basis.

b. Who Will Accomplish:

The National Security Agency

c. What is to be developed:

The I&W analyst will be provided with the capability to display, modify, transmit, and produce in hard copy form 1) geographic plots

25X1

d. Time Phasing:

Procurement of most of the hardware, and development of the basic system software will have to be accomplished in the first year. The transfer of the capability to operational systems will be accomplished in the second year.

WARNING NOTICE
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IV. INTELLIGENCE COMMUNITY APPLICABILITY:

The many Indications and Warning centers which rely on SIGINT and produce warning information themselves would benefit both by being able to receive I&W information in timeline and map form and by adopting for their own use any I&W graphics capability developed through the proposed effort.

V. INTELLIGENCE CONSUMER BENEFITS:

Users of SIGINT I&W information will benefit by the increased depth and timeliness of reporting, and by the immediate usability of maps and timelines forwarded in graphic form. The number of crisis or other high-interest events for which SIGINT I&W information can be provided will be increased.

VI. PROBABILITY OF SUCCESS:

The key elements of an I&W graphics capability, maps and timeline displays, have not yet been developed by any company or agency, nor have the distribution problems associated with transmission of graphics directly to users been resolved. Some experimental work has been accomplished by the Defense Advanced Research Projects Agency (DARPA) in the area of making file retrieval and data manipulation procedures immediately (with 1-2 hours' training) usable, but the capability has never been tested in a working environment. Development of the software for unique I&W applications, and resolution of problems in forwarding graphics on communications networks, pose a considerable challenge, but have a reasonably high probability of success.

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